

200 E. Randolph Drive, Suite 4700 ◆ Chicago, IL 60601 ◆ (312) 856-8700 ◆ FAX (312) 938-0118

September 19, 1997

SEP 2 5 1997

Mr. Michael Bellot Remedial Project Manager Remedial Response Unit No. 1 U.S. Environmental Protection Agency Region 5 77 West Jackson Boulevard Chicago, IL 60604

Subject:

Field Oversight Summary No. 1 Final Remedial Design Activities

Blackwell Forest Preserve Landfill, DuPage County, Illinois Contract No. 68-W8-0084, Work Assignment No. 84-5P6Y

Dear Mr. Bellot:

On August 21 and 27 and September 3 and 11, 1997, Tetra Tech EM Inc. (Tetra Tech) conducted oversight of final remedial design activities at the Blackwell Forest Preserve Landfill in DuPage County, Illinois. The landfill is owned by the DuPage County Forest Preserve District (FPD). The activities that Tetra Tech oversaw consisted of repairs to the cap in Areas 3 and 5 and installion of a leachate collection system (LCS) between extraction wells EW-04 and EW-05. Envirocon, subcontractor to Montgomery Watson, which is a consultant to the FPD, and Envirocon's subcontractors, Art Lootens and Sons and RTE Environmental, conducted the cap repair and LCS installation activities.

Kevin Schnoes represented Tetra Tech onsite during the oversight period. A summary of Tetra Tech's oversight activities is enclosed. Appendix A of the enclosure contains photographs of site activities, and Appendix B contains Tetra Tech's field notes.

If you have any questions, please call Kevin Schnoes at (312) 856-8735 or Manoj Mishra at (312) 856-8721.

Sincerely,

Kostas Dovantzis, Ph.D., P.E., D.E.E.

Site Manager

Klein Schnoes

Enclosure

cc:

Sieve Nathan, EPA Froject Officer (letter only)

Marguerite Hendrixson, EPA Contracting Officer (letter only)
Majid Chaudhry, Tetra Tech Program Manager (letter only)

contains recycled fiber and is recyclable

EPA Region 5 Records Ctr.

ENCLOSURE

FIELD OVERSIGHT SUMMARY NO. 1 FINAL REMEDIAL DESIGN ACTIVITIES BLACKWELL FOREST PRESERVE LANDFILL DUPAGE COUNTY, ILLINOIS

(Four Pages)

FIELD OVERSIGHT SUMMARY NO. 1 FINAL REMEDIAL DESIGN ACTIVITIES BLACKWELL FOREST PRESERVE LANDFILL DUPAGE COUNTY, ILLINOIS

Tetra Tech Oversight Personnel:

Kevin Schnoes August 21 and 27 and September 3 and 11, 1997

Reporting Period:

INTRODUCTION

The DuPage County Forest Preserve District (FPD) is conducting final remedial design activities at the Blackwell Forest Preserve Landfill site in DuPage County, Illinois, pursuant to a consent order signed by the FPD and the U.S. Environmental Protection Agency (EPA) on September 25, 1989. After the site's final listing on the National Priorities List (NPL), a remedial investigation/feasibility study (RI/FS) was performed. On March 7, 1996, an administrative order by consent (AOC) was signed by the FPD and EPA to address installation of extraction wells, design of a leachate collection system (LCS), a predesign investigation, and cap repair. Leachate extraction wells were installed at the site in June 1996, and the predesign investigation began in October 1996. In February 1997, Montgomery Watson, consultant to the FPD, submitted a work plan for final remedial design activities at the site. The activities discussed in the work plan include recapping of certain areas of the landfill and installation of an LCS. EPA subsequently approved the work plan.

Tetra Tech EM Inc. (Tetra Tech) conducted oversight of cap repair and LCS installation activities on August 21 and 27 and September 3 and 11, 1997. These activities were performed by Envirocon, subcontractor to Montgomery Watson, and Envirocon's subcontractors, Art Lootens and Sons (Lootens) and RTE Environmental (RTE). This report summarizes Tetra Tech's oversight observations and presents comments and problems, issues and developments, and future activities. Appendix A contains photographs of the cap repair and LCS installation activities, and Appendix B contains Tetra Tech's field notes.

OVERSIGHT OBSERVATIONS

Thursday, August 21, 1997

At 9:30 a.m., Kevin Schnoes of Tetra Tech arrived at the site and met with Jerry Hartwig of the FPD. Envirocon and Lootens were already at the site and had begun removing old cap material from Area 3 (see Photographs No. 1, 2, and 3). This material was transported to and stored at Area 4 (see Photographs No. 4 and 5). Mr. Hartwig stated that the FPD was having difficulty finding clay suitable for use as capping material in the areas that required recapping. At 11:30 a.m., Peter Vagt of Montgomery Watson arrived at the site. Mr. Vagt was informed of the site activities and of the difficulty in finding clay suitable for capping. At 1:55 p.m., Envirocon and Lootens began capping Area 3 with brown clay from a stockpile west of Area 3 (see Photographs No. 6 and 7). According to Envirocon, the stockpiled clay was tested and determined to be suitable for use as capping material. Area 3 had been surveyed before capping began and had been marked with stakes showing the 2-foot-minimum clay thickness needed to cap the area. Testing Service Corporation (TSC) arrived at the site at 2:10 p.m. to test the new clay cap in Area 3 in order to ensure that it met the required specifications. However, Envirocon stated that there would be no need for cap tests on August 21 because recapping of Area 3 had just begun. Envirocon told TSC to return on August 22 to test the clay cap, and TSC left the site at about 3:00 p.m.

Tetra Tech left the site at 4:00 p.m.

Wednesday, August 27, 1997

Kevin Schnoes of Tetra Tech arrived at the site at about 11:30 a.m. after receiving a message from Walter Buettner of Montgomery Watson stating that activities would be conducted at the site on August 27. Tetra Tech had attempted to contact Mr. Buettner on August 26 to determine whether activities would be conducted at the site on August 27; however, Mr. Buettner did not answer his telephone, and a message was left for him to inform Tetra Tech of the planned site activities.

When Tetra Tech arrived at the site, Areas 3 and 5 had been completely capped (see Photograph No. 8); Envirocon and Lootens had completed capping of these areas earlier in the week. Envirocon and Lootens were placing topsoil over the new clay cap in Areas 3 and 5 (see Photograph No. 9).

Area 5 lies adjacent to and west of Area 3. The ground surface of Area 3 had been contoured to promote surface water runoff toward a drain on the east side of Area 3 and ditch along the road north of Area 3. In addition, the old cap material removed from Area 3 and placed in Area 4 had been contoured to promote surface water runoff (see Photograph No. 10).

Tetra Tech left the site at 2:00 p.m.

Wednesday, September 3, 1997

Kevin Schnoes of Tetra Tech arrived at the site at about 10:30 a.m.; however, no activities were being conducted. On August 27, Mr. Schnoes had left his business card with the Envirocon field personnel and informed them to call him if no work was going to be performed onsite during the week of September 1. Mr. Schnoes did this because of the difficulty he had experienced in contacting Mr. Buettner of Montgomery Watson during the previous week to determine whether site work was going to be performed. Mr. Schnoes also checked his office voicemail for messages concerning the site, but, there was none. On September 3, the site appeared to be in the same condition as during the previous week except that Areas 3 and 5 had been completely covered with topsoil.

Tetra Tech left the site at 11:30 a.m.

Thursday, September 11, 1997

Kevin Schnoes of Tetra Tech arrived at the site at about 10:00 a.m. Envirocon and RTE were already at the site and had excavated the leachate conveyance tranch between extraction wells EW-04 and EW-05 (see Photographs No. 11 through 15). EW-04 is located at the top of the landfill, and EW-05 is located about 200 feet east of EW-04 on the flank of the landfill. The bottom elevation of the trench was surveyed in various locations to ensure that it had at least a 2 percent slope as stated in the work plan. The trench contained four polyvinyl chloride (PVC) pipes. Three of the pipes were 2 inches in diameter and were for electrical lines, leachate conveyance, and compressed air; the fourth pipe was 6 inches in diameter and was for landfill gas conveyance. After the pipes had been placed in the trench, sand was placed around and above the pipes. The trench was filled with sand to a point about 6 inches above the pipes (see Photographs No. 16 through 18).

Tetra Tech left the site at 4:00 p.m.

COMMENTS AND PROBLEMS

Tetra Tech observed no significant problems or deficiencies during the reporting period.

ISSUES AND DEVELOPMENTS

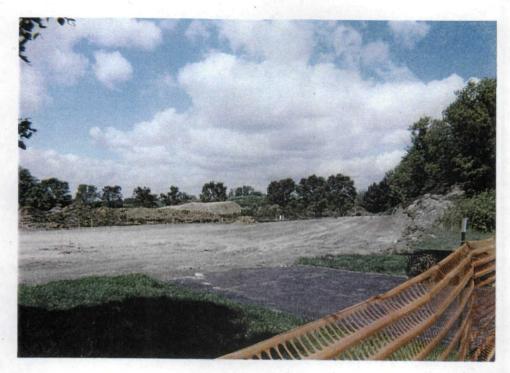
Capping activities were discontinued after the recapping of Areas 3 and 5 because a suitable source of additional clay could not be found. The FPD plans to resume capping activities in spring 1998 after such a source is found.

FUTURE ACTIVITIES

As directed by EPA, Tetra Tech will continue its oversight activities and provide EPA with field oversight summary reports.

APPENDIX A PHOTOGRAPHIC LOG

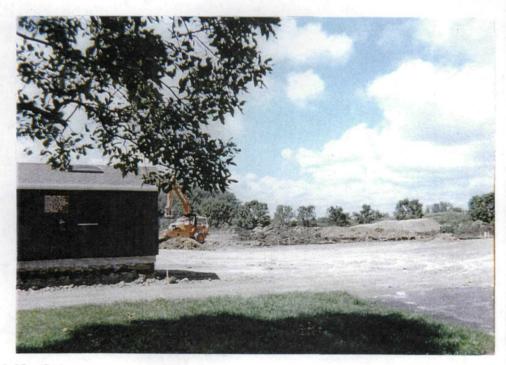
(10 Pages)



Photograph No. 1 Orientation: North

Description: Excavation of original cap at Area 3

Location: Area 3 Date: 08/21/97



Photograph No. 2 Orientation: Northwest

Description: Excavation of original cap at Area 3

Location: Area 3 Date: 08/21/97



Date: 08/21/97

Photograph No. 3 Orientation: North

Description: Overview of Area 3 during excavation of original cap



Photograph No. 4 Orientation: Northwest

Description:

Portion of Area 4 used to store material excavated from Area 3; material has been

contoured for surface water drainage



Photograph No. 5 Orientation: North

Description: Overview of excavation of Area 3 (right) and Area 4 (left)

Location: Area 4 Date: 08/21/97



Photograph No. 6 Orientation: West

Description: Capping of Area 3

Location: Area 3 Date: 08/21/97



Photograph No. 7
Orientation: West
Location: Area 3
Date: 08/21/97

Description: Loading of soil stockpiled west of Area 3 for use in recapping Area 3



Photograph No. 8 Orientation: East

Description: Area 3 after installation of new cap

Location: Area 3 Date: 08/27/97



Photograph No. 9 Orientation: North

Description: Spreading of topsoil over Area 3 cap

Location: Area 3 Date: 08/27/97

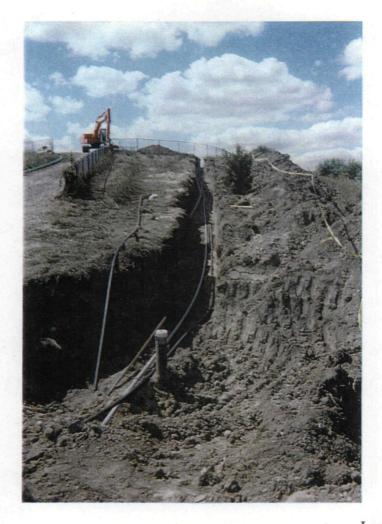


Photograph No. 10 Orientation: West

Location: Area 4 Date: 08/27/97

Description: Excavated material stored in Area 4 after it had been regraded and contoured to

promote surface water runoff



Photograph No. 13 Orientation: West

Description:

Location: Top of landfill
Date: 09/11/97
rench; three smaller pipes were

Polyvinyl chloride pipes placed in leachate conveyance trench; three smaller pipes were 2 inches in diameter and were for electrical lines, leachate conveyance, and compressed air; large pipe was 6 inches in diameter and was for landfill gas conveyance



Photograph No. 14 Orientation: North

Location: Top of landfill Date: 09/11/97

Description: View of EW-04; pipes from leachate conveyance trench also visible; pipes had not yet been connected to the well



Photograph No. 15 Orientation: East

Description:

View of leachate conveyance trench from EW-04

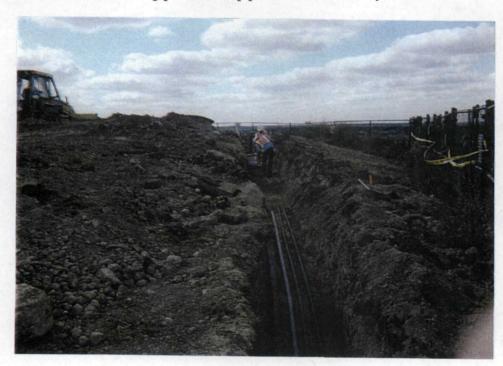
Location: Top of landfill Date: 09/11/97



Photograph No. 16 Orientation: West

Location: Top of landfill Date: 09/11/97

Description: Sand backfill being placed over pipes in leachate conveyance trench



Photograph No. 17

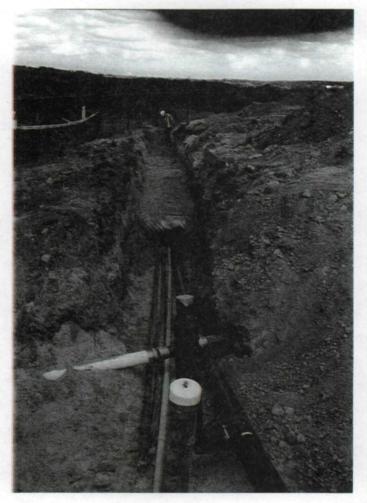
Location: Top of landfill

Orientation: West

Date: 09/11/97

Description:

Sand backfill being placed over pipes in leachate conveyance trench



Photograph No. 18
Orientation: East
Location: Top of landfill
Date: 09/11/97

Description: Sand backfill being placed over pipes in leachate conveyance trench

APPENDIX B

FIELD NOTES

(Seven Sheets)

______Date 8/21/97 Cloudy, windy, 60s Field Logbook No. _____1 6430 Kevin Schners of Tetra Tick arriver or Blackwell Landfill Most w/ Jerry Hartwy of Forest Presente & Bill Whealing of Environcem (contractors) Area 3 executation began last week They are finishing up today. Environce then plans however, Jenny said it has been difficult trying to find they I that hopefully let will Unit delay the project Material executated from Area. 3
appears to be mostly clay. Its
Environer is moving it to the
Area 15/10 1 storms It machinally
copping part of Area. 5 Jan Sheffler with Fourt Proses we construct as the sale. He will K gelmons 18/21/97

Field Logbo	ok No	Date		
	be the main	field ma	nager for	
1130 P	eter Vagt	Montgom	ny Watson	
E	Jerry Ha	status of	the project	
	0			
	them to &	clay the	d will allow	
	have to be	sample	to determine fications	
Je	my, Bill, o	Peter du	some of the from Alea 3	
	a) cop mu	devol for	the area.	
They are thereof's storing it in Area 5 9 alor wang it to K. Schros 8/21/97				

cap flow 5. Environen has
been trying to segre got;
the courtre material from the
clay in the teres 3 extravation
to string it in separate areas,
samples would have to be
collected tefore the sof the
meterial store in Ara 5
before they use it to Cap
Airea 3

1300 Eweryone breaks for lunch, 1300 Back from lunch Environce begin socarating in Area 3 again

1335 Photo 1 (N) - encavatel area of Area 3
1336 Photo 2 (NW) - 87 Convert enravoluen
in 19 60 3
Light coloub pillin bukground of
philos os courses madrial
removed from the execusation

K. Schoon | 97

1345 Photo 3 (NW) - Section of Area 5 120 Cappel of material extravaled from Area 3. Material consists mainly of clay. Steep slope to left (5) of photo

1345 Photo 4 (W) - Overview of Area 3

We awation

1355 Photo 5 (N) - Overwew of Aue 3
excavalion + Aron & capping.
That taken from the top of the
landfell

The contractors doing the actual excavation & copping on from Aut Lootens

they are starting to bring in brown clay from west of Attens and capping Area 3. Stockpulo of elay material breated was of Area 3 even ate 6 (W) - Capping of Area 3 even ated to the left is moving to pearl

1410 Photo 7 (w)- Loadery of stockpulms soil located west of Area 3. Soil used to cap Alea 3

The suverous have shown up a staked out Area 3. They stake, are marked to 2' so the people, amount of cap material cap be placed

John Mc Donough of Montgomery Watson has also arrived at the site

Personnel from Testing Service Corp have arrived to collect sample and takes tests of the cap milerial being placed in Area 3.

According to Environment the clay way to for once I has been been tell it is custable for copping

Field Logbook No.

Date .

1500 TSC leaves the city. Enveroco sail they would not have enough clay installed to hay to test. They will return tomorrow

Environ wants to cap area of Area 3 but because it is lower thick when well we leny it rain, this will also help drainings to manhole in the area

1600 Tetra Tech offsite

< Schright > 5 /11/87

Field Logbook No

Kein Schnoer of Tetro Tech received a message from Walter Buellner of Montgomery Watson concerning activities at Blackwell Landfill, of KS trust to called My. Buetling yesterday to determine of any activities would be occurring at blackwell but got his voice mail elh his mersage, MA Builling said that they had pushed Capping Aug 3 + hal started on Aria 5. Hackers demobilize the capping activities of begin mobilizing for builde activities.

1130 Leave for Blackwell with 1130 Arrive at Blackwell. The workers have are on thou bunch 11 Selver 727/27 Area 3 has been capped w/ clayey soil.

1140 Photo 8 (50) - Area 3 after it

Envirocon is currently placing topsoil on Area 3. They think they have enough clay or enter to finesh Area 5. They also plan on regarding Area 4 sine they do not have enough clay to cap it.

Topsoil being sorond in and.

Area has been slopel for draining. Light crloud area in mount of soil that was knowled down to form been or high area. With will flow to week (light) of earl (right) of earl (right) of earl (right)

According to Jerry P
Environ, blay was placed
and lifts. Testing sewice
Corp (TSC) was her to do
compaction tests on lifts

1335 Photo 10 (W) Ava 4 -7 appear

Envietor plan, to begin leachete trunching on Thursday of nep week

The surveyors were also reportedly has to confirm that I'm the four placed over the online was

1500 Environer Loolens continued placing toppoil
Telso. Tech offull
16. Schrit 8127197

1030 Kevin Schners of Tetha Tech
auwes @ The Blackwell
fourfill. There is no one
here Conducting work. Look
week el left my cand w/
Environ & toll them to
Call me I no work was going
to be done, but no one called
I will want to see if anyone
shows up. Area 345 have been
completely covered w/ topsail.
1100 Check my voice mail to see
I then are any messages
for me, but there are non.

K. 4chres 197

K. Schwes 9/11/97

Jerry ? of Environny John Votson are also here Surveyors are how checking the grade of the leachate him RTE is socawating truck it laying leachete line pawards extlaction will EW 05 140 Jorry 7 John leave for lunch RTE leaves for lunch 1325 fevry & John are not back yet So far & pipes have been slaced in the trench 3 2" dia 1 gray has stictured lener, black + beach at a man 1 6' die: 1'V - yas

Field Logbook No.

14 Field Logbook No. 1330 Photo 13 (W) - View of leachete conveyance line from ar expent Photo H (N) - Extraction well EW- Cy. Pipes in trunch have not yet been hooked up to well health Photo 15 (E). View of leachate conveyance line from EW DY 1400 RTL placing sond bookfull over piper in French That in (iii). RTL placing backful in trench by EL 040 Plate 17(W)-187E spreeding sand

Field Logbook No. Photo 18 (E) Soul being speak 1600 Tetre Tech offsite